

What is claimed is:

1 Sub
2 AI

1. An electronic device comprising:
an external supply voltage terminal; and
a circuit to provide an indication of a first supply voltage level to be furnished to the
supply voltage terminal in response to receiving power from the terminal.
2. The electronic device of claim 1, wherein the circuit provides the indication in
response to a second supply voltage level being furnished to the terminal, the second supply
voltage level being independent from the indication.
3. The electronic device of claim 2, wherein the second supply voltage level
comprises a relatively constant supply voltage level.
4. The electronic device of claim 1, further comprising:
another circuit separate from the first circuit to receive the first voltage supply level
from the terminal.
5. The system of claim 4, wherein said another circuit comprises core circuitry of
a central processing unit device.
6. The system of claim 4, further comprising:
a die,
wherein said another circuit and the first circuit are fabricated on the die.
7. The system of claim 1, wherein the circuit furnishes the indication in response
to a second supply voltage level being furnished to the terminal and the first voltage supply
level is furnished to the terminal in response to validation of the indication.
8. The system of claim 1, wherein the electronic device comprises a central
processing unit device.

1 9. The system of claim 1, wherein the indication represents a voltage
2 identification number.

1 10. The system of claim 1, wherein the circuit does not receive power other than
2 through the terminal.

1 11. A method comprising:
2 providing an indication of a first supply voltage level to be furnished to a supply
3 voltage terminal in response to receiving power from the terminal; and
4 in response to the indication, establishing a voltage of the terminal near the first
5 supply voltage level.

1 12. The method of claim 11, wherein the providing comprises:
2 providing the indication in response to a second supply voltage level being furnished
3 to the terminal, the second supply voltage level being independent from the indication.

1 13. The method of claim 12, wherein the second supply voltage level comprises a
2 relatively constant supply voltage level.

1 14. The method of claim 11, where the indication is associated with a first circuit,
2 the method further comprising:
3 furnishing the first voltage supply level from the terminal to another circuit separate
4 from the first circuit.

1 15. The method of claim 11, wherein the providing comprises providing the
2 indication in response to a second supply voltage level being furnished to the terminal, the
3 method further comprising:
4 furnishing the first voltage supply level to the terminal in response to validation of the
5 indication.

AI 1 16. The method of claim 11, wherein the electronic device comprises a central
2 processing unit device.

1 17. The method of claim 11, wherein the indication represents a voltage
2 identification number.

1 18. A system comprising:
2 an electronic device including an external supply voltage terminal, the electronic
3 device providing an indication of a first supply voltage level to be furnished to the terminal in
4 response to receiving power from the terminal; and
5 a voltage regulator to provide power to the electronic device through the terminal to
6 cause the electronic device to provide the indication and regulate a voltage of the terminal
7 near the first supply voltage level in response to the electronic device providing the
8 indication.

1 19. The system of claim 18, wherein
2 the voltage regulator regulates the voltage of the terminal near a second voltage level
3 independent from the first voltage level to cause the electronic device to provide the
4 indication.

1 20. The system of claim 18, wherein the second supply voltage level comprises a
2 relatively constant supply voltage level.

1 21. The system of claim 18, wherein
2 the voltage regulator regulates the voltage of the terminal near the first supply voltage
3 level in response to validation of the indication.

1 22. The system of claim 18, wherein the electronic device comprises a central
2 processing unit device.

23. The system of claim 18, wherein the indication represents a voltage identification number.

24. A voltage regulator comprising:
voltage regulation circuitry to provide an output voltage in response to a reference voltage to power an electronic device; and
a circuit to set the reference voltage to a first level to cause the voltage regulation circuitry to regulate the output voltage near a predetermined output voltage level, and in response to an indication of a supply voltage level furnished by the electronic device, set the reference voltage near a second supply voltage level to cause the voltage regulation circuitry to regulate the output voltage near the supply voltage level indicated by the electronic device.

25. The voltage regulator of claim 24, wherein the second supply voltage level comprises a relatively constant supply voltage level.

26. The voltage regulator of claim 24, wherein the electronic device furnishes the indication in response to the output voltage being regulated near the predetermined output voltage level.

27. The voltage regulator of claim 24, wherein the indication represents a voltage identification number and the electronic device comprises a central processing unit.